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NERC Lessons Learned

Hamad Shahbaz
Compliance Assurance

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NERC Lessons Learned

Interconnection Oscillation Disturbances

Interest Groups:	RC/BA/GO/GOP
Problem Statement:	• On January 11, 2019, an interconnection-wide oscillation of approximately 0.25 Hz frequency propagated through the entire Eastern Interconnection
Lessons Learned – Plant Level:	• Training for GOPs, RCs, BAs, and TOPs outlining root cause analysis and specific actions • The GOP and BA should communicate as soon as one notices significant unit output oscillations and determine if the generator's equipment is endangered
Lessons Learned – Wide-area Impacts:	• RCs should have real-time oscillation detection tools in place to identify when oscillations are occurring • RCs should consider jointly developing interconnection-wide oscillation detection and source location applications using interconnection-wide PMU and SCADA data

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Controlled Islanding due to Wildfire Event

Interest Groups:	SO/TO/TOP/GO/GOP/BA
Problem Statement:	• A registered entity experienced wildfire in a transmission right of way (ROW) • To enable firefighters to use aerial suppression agents on fire, the entity was requested to d-energize transmission lines, forming an electric island
Corrective Actions:	• The ability of large industrial plants to regulate their load based on system requirements helped to maintain more generation in the island • Minor updates are required in internal control document to change wording for better clarity
Lessons Learned:	• To obtain a better understanding of performance under islanded operation, discuss with GOs and perform the frequency response test on blackstart capable machines • SOs need to be cognizant of overcurrent and distance elements for transmission lines

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ieso.ca

1.888.448.7777

customer.relations@ieso.ca

engagement@ieso.ca

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